Amendments to the Claims

Claims 8-10, 58, 59, 62-65, 77, 79, 88, 89 and 97 have been cancelled. Claims 1, 11-13, 22, 26, 31, 40, 41, 46, 60, 61, 66, 70-72, 80-82, 84-87, 90-96 and 98 have been amended. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) A method for treating a human having an inflammatory bowel disease ~~a disease associated with leukocyte infiltration of mucosal tissues~~, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human α4β7 integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses ~~and the minimum interval between any two doses is a period of at least about 1 week, and~~ wherein no more than about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight are administered during a period of about one month, wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the α4β7 complex, wherein said antigen-binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

light chain:	CDR1	SEQ ID NO: 9
	CDR2	SEQ ID NO: 10
	CDR3	SEQ ID NO: 11
heavy chain:	CDR1	SEQ ID NO: 12
	CDR2	SEQ ID NO: 13
	CDR3	SEQ ID NO: 14.

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2– 10. (Canceled)

11. (Currently Amended) The method of Claim [[10]] 1 wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the heavy chain variable region of SEQ ID NO:6.

12. (Currently Amended) The method of Claim [[10]] 1 wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the light chain variable region of SEQ ID NO:8.

13. (Currently Amended) The method of Claim 1 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

14-17. (Canceled)

18. (Original) The method of Claim 1 wherein the interval between doses is at least about 14 days.

19-21. (Canceled)

22. (Currently Amended) A method for treating a human having an inflammatory bowel disease ~~a disease associated with leukocyte infiltration of mucosal tissues~~, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human $\alpha 4\beta 7$ integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses ~~and the minimum interval between any two doses is a period of at least about 1 week, and~~ wherein each of said doses independently comprise an amount of humanized immunoglobulin or antigen-binding fragment thereof which is sufficient to achieve a) about 50% or greater saturation of $\alpha 4\beta 7$ integrin binding sites on circulating lymphocytes and/or b) about 50% or greater inhibition of $\alpha 4\beta 7$ integrin expression on the cell

surface of circulating lymphocytes, and wherein said saturation and/or inhibition is maintained for a period of at least about 10 days following administration of said dose; wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the α4β7 complex, and wherein said antigen binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

light chain:	CDR1	SEQ ID NO: 9
	CDR2	SEQ ID NO: 10
	CDR3	SEQ ID NO: 11
heavy chain:	CDR1	SEQ ID NO: 12
	CDR2	SEQ ID NO: 13
	CDR3	SEQ ID NO: 14.

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23-25. (Canceled)

26. (Currently Amended) The method of Claim 22 wherein each of said doses independently comprise an amount of humanized immunoglobulin or antigen-binding fragment which is sufficient to achieve and maintain said saturation and/or inhibition for a period of at least about 14 days following administration of said dose.

27-30. (Canceled)

31. (Currently Amended) The method of claim 22 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

32-35. (Canceled)

36. (Original) The method of Claim 22 wherein the interval between doses is at least about 14 days.

37-39. (Canceled)

40. (Currently Amended) A method for treating a human having an inflammatory bowel disease ~~a disease associated with leukocyte infiltration of mucosal tissues~~, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human α4β7 integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses ~~and the minimum interval between any two doses is a period of at least about 1 week, and~~ ,wherein each of said doses comprises an amount of humanized immunoglobulin or antigen-biding fragment which is sufficient to achieve and maintain a serum concentration of humanized immunoglobulin or antigen-binding fragment of at least about 1 μg/mL for a period of at least about 10 days following administration of said dose; wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the α4β7 complex, and wherein said antigen binding region comprises three complementarity determining regions (CDR1, CDR2 and CDR3) of a light chain variable region and three complementarity determining regions (CDR1, CDR2 and CDR3) of a heavy chain variable region of the amino acid sequence set forth below:

light chain:	CDR1	SEQ ID NO: 9
	CDR2	SEQ ID NO: 10
	CDR3	SEQ ID NO: 11
heavy chain:	CDR1	SEQ ID NO: 12
	CDR2	SEQ ID NO: 13
	CDR3	SEQ ID NO: 14.

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41. (Currently Amended) The method of Claim 40 wherein each of said doses independently comprise an amount of humanized immunoglobulin which is sufficient to achieve and maintain

said serum concentration for a period of at least about 14 days following administration of said dose.

42-45. (Canceled)

46. (Currently Amended) The method of Claim 40 wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin per kg body weight.

47-50. (Canceled)

51. (Original) The method of Claim 40 wherein the interval between doses is at least about 14 days.

52-54. (Canceled)

55. (Original) The method of Claim 1 further comprising administering an effective amount of one or more additional therapeutic agents.

56. (Original) The method of Claim 55 wherein said agents are selected from the group consisting of steroids, immunosuppressive agents, non-steroidal anti-inflammatory agents and immunomodulators.

57. (Original) The method of Claim 55 wherein said agents are selected from the group consisting of azathioprene, 6-mercaptopurine, sulfasalazine, 5-amino salicylic acid, prednisone and prednisolone.

58. (Canceled)

59. (Canceled)

60. (Currently Amended) The method of Claim [[59]] 1 wherein said inflammatory bowel disease is ulcerative colitis.

61. (Withdrawn-Currently Amended) The method of Claim [[59]] 1 wherein said inflammatory bowel disease is Crohn's disease.

62-65. (Canceled)

66. (Withdrawn-Currently Amended) A method for inhibiting relapse and/or recurrence of quiescent inflammatory bowel disease in a human, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for $\alpha 4\beta 7$ integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an immunoglobulin of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in doses and the minimum interval between doses is a period of at least about 7 days, and wherein no more than about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight are administered during a period of about 30 days; wherein said humanized immunoglobulin or antigen-binding fragment has binding specificity for the $\alpha 4\beta 7$ complex.

67. (Withdrawn) The method of Claim 66 wherein quiescence has been induced by medical or surgical therapy.

68. (Withdrawn) The method of Claim 66 wherein said inflammatory bowel disease is ulcerative colitis.

69. (Withdrawn) The method of Claim 66 wherein said inflammatory bowel disease is Crohn's disease.

70. (Currently Amended) The method of Claim 1 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

71. (Currently Amended) The method of Claim 22 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

72. (Currently Amended) The method of Claim 40 wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

73. (Previously Presented) The method of Claim 1 wherein the interval between doses is at least about 50 days.

74. (Previously Presented) The method of Claim 22 wherein the interval between doses is at least about 50 days.

75. (Previously Presented) The method of Claim 40 wherein the interval between doses is at least about 50 days.

76. (Previously Presented) The method of Claim 22 further comprising administering an effective amount of one or more additional therapeutic agents.

77. (Canceled)

78. (Previously Presented) The method of Claim 40 further comprising administering an effective amount of one or more additional therapeutic agents.

79. (Canceled)

80. (Currently Amended) A method for treating a human having an inflammatory bowel disease ~~a disease associated with leukocyte infiltration of mucosal tissues~~, comprising administering to said human an effective amount of a humanized immunoglobulin or antigen-binding fragment thereof having binding specificity for human $\alpha 4\beta 7$ integrin, said humanized immunoglobulin or antigen-binding fragment comprising an antigen binding region of nonhuman origin and at least a portion of an antibody of human origin, wherein said humanized immunoglobulin or antigen-binding fragment is administered in a single dose or in an initial dose followed by one or more subsequent doses ~~and the minimum interval between any two doses is a period of at least about 14 days, and~~ , wherein no more than about 8 mg immunoglobulin or fragment per kg body weight are administered during a period of about one month, wherein said

humanized immunoglobulin or antigen-binding fragment has binding specificity for the α4β7 complex, and wherein said humanized immunoglobulin or antigen-binding fragment thereof comprises the heavy chain variable region of SEQ ID NO:6 and the light chain variable region of SEQ ID NO:8.

81. (Currently Amended) The method of Claim 80, wherein each of said doses independently comprise about 0.1 to about 8 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

82. (Currently Amended) The method of Claim 80, wherein each of said doses independently comprise about 0.1 to about 5 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

83. (Previously presented) The method of Claim 80, wherein the interval between doses is at least about 30 days.

84. (Currently Amended) The method of Claim 80, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

85. (Currently Amended) The method of Claim 1 wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

86. (Currently Amended) The method of Claim 22, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

87. (Currently Amended) The method of Claim 40, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

88-89. (Canceled)

90. (Withdrawn-Currently Amended) The method of Claim 66, wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

91. (Withdrawn-Currently Amended) The method of Claim 66, wherein each of said doses independently comprise about 2 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

92. (Currently Amended) The method of Claim 80, wherein each of said doses independently comprise about 6 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

93. (Currently Amended) The method of Claim 80, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

94. (Currently Amended) The method of Claim 1 wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

95. (Currently Amended) The method of Claim 22, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

96. (Currently Amended) The method of Claim 40, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.

97. (Canceled)

98. (Withdrawn-Currently Amended) The method of Claim 66, wherein each of said doses independently comprise about 4 mg humanized immunoglobulin or antigen-binding fragment per kg body weight.